

# Unmanned Systems



White Sands Missile Range (WSMR) provides Unmanned Aerial Systems (UAS) and Unmanned Ground Vehicle (UGV) test and evaluation services from component testing through System-of-Systems (SoS) testing including long-duration and beyond-line-of-sight.

## Facilities and instrumentation for UAS and UGV testing include:

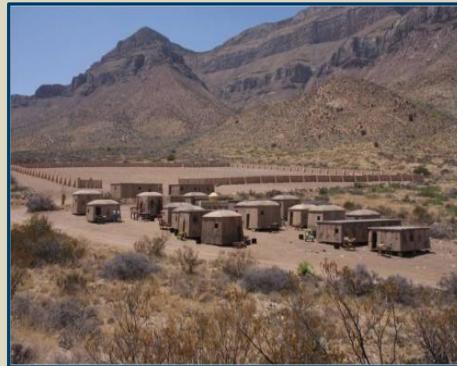
- **Air & Land Space** – large safety buffers, restricted airspace (surface to infinity), local air traffic control, DoD frequency management on site, call-up land and airspace extensions, no FAA Certificate of Airworthiness requirements
- **Fixed Targets** – infrastructure (caves, hardened impact areas), vast array of ground vehicles, aerial and air defense, Intelligence, Surveillance, and Reconnaissance (ISR), weapon and sensor targets, unique surrogate targets
- **Infrastructure** – runways, hazardous operations in a secure and safe environment, emergency recovery
- **Logistics** – munitions storage and ammunition supply point, hangar and ramp space, fuel support
- **Joint Interoperability** - Air Force – F-22, Predator, Army Air Defense, PEO-I, Ft Bliss training, Navy Air Defense, other UAV, sensor, and missile customers at WSMR
- **Instrumentation** – communications, distributed testing, radar Time Space Position Information (TSPI), tracking optics (TSPI), infrared and high speed cameras, etc.), telemetry support, GPS and timing support, meteorology and weather support
- **Operational Environment** – diverse terrain (mountains, dessert, grasslands, trees), clear skies, RF quiet and controlled, secure remote jamming (Electronic Warfare), GPS jamming, countermeasures
- **Laboratory Testing** – E3, nuclear effects, world-wide climatics



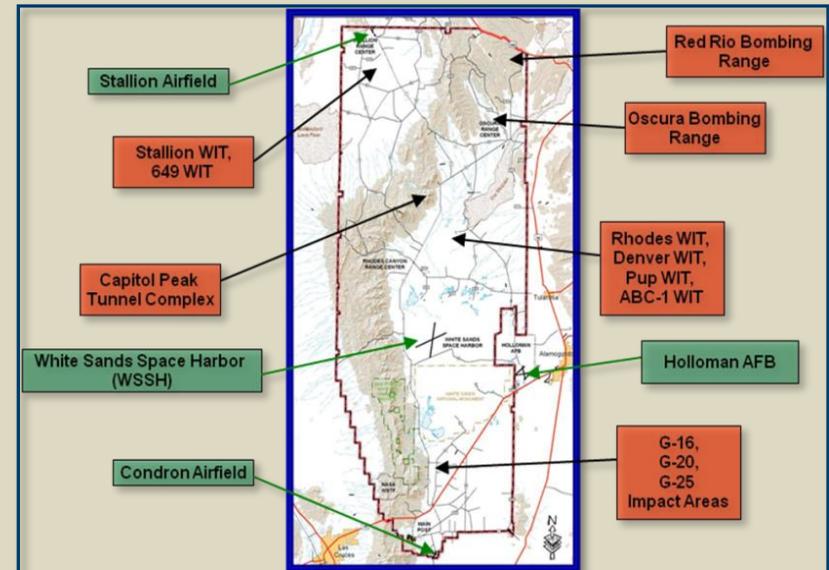
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WSMR provides a comprehensive array of test capabilities enabling UAS and UGV testing in a safe, secure, and diverse terrain and airspace environment. Fixed and mobile climatic, dynamic, electromagnetic environmental effects (E3), and nuclear effects facilities are equipped to accommodate complete UAS and UGV testing for world-wide ground deployment environments. The WSMR airspace extends from surface to infinity over a ground footprint of over 10,000 sq miles enabling long-endurance, persistent surveillance mission scenarios. WSMR's Space Harbor twin runways (space shuttle landing site) are 15,000 ft. long with 10,000 ft. runoffs on both ends. Two other runways, Condron Airfield and Stallion Airfield, are 6125 and 4,000 feet long respectively.



UAS weapons testing can be augmented by a full array of threat-representative ground and airborne targets as well as fixed targets, cave networks, deeply buried structures, 8 different urban settings and employment of realistic electromagnetic and Electronic Countermeasures (ECM) environments for a comprehensive sensor assessment. Weapon Impact Target (WIT) sites supporting a wide array of munitions are located close to existing airfields. These test capabilities are complimented by a full suite of state-of-the-art, fixed and mobile instrumentation including 360° radar, optical and telemetry coverage, TSPI, and data processing and analysis infrastructure.



Expansive testing range (100 x 40 miles)

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